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-078598 (71)Applicant : KANEGAFUCHI CHEM IND CO LTD

(72)Inventor: YAMAGISHI HIDEO

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entor. TAMAGISHI HIDLO

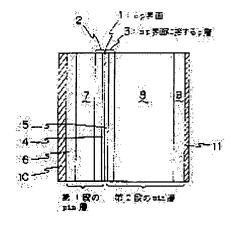
YAMAGUCHI YOSHINORI

ASAOKA KEIZO HIROE AKIHIKO KONDO MASATAKA TSUSHIMO KAZUNAGA OWADA YOSHIHISA

(54) SEMICONDUCTOR DEVICE

(57)Abstract:

PURPOSE: To obtain a high-performance amorphous silicon multijunction type solar cell by a method wherein a high concentration impurity layer which has an impurity concentration high enough to accelerate carrier recombination is provided in an n-p or p-n boundary part. CONSTITUTION: A high concentration impurity layer which has an impurity concentraion high enough to accelerate carrier recombination is provided in an n-p or p-n boundary part of a multijunction type photosensor. If the n-p or p-n boundary part is composed of the partial layers of the ptype layer and/or the n-type layer, the thickness of that part is usually $10 \sim 700$ & angst; approximately. The n-p or p-n boundary part may be the partial layers 4 and 5 of a ptypelayer 3 and/or n-type layer 2 which are contacted with the n-p or p-n boundary 1 or a new layer which is doped with element other than p-type dopant or n-type dopant and is provided between the n-type layer and the p-type layer of the n-p or p-n boundary or the combination of them. With this constitution, η , Voc and FF of a solar battery can be improved.



LEGAL STATUS

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